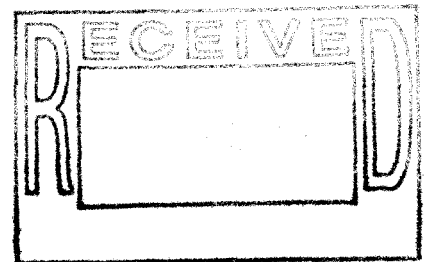


Reconnaissance Level Characterization Report
For The Building T764A Removal

REVISION 0

FEBRUARY 1997



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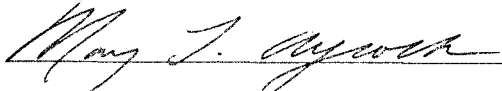
IA-A-002001

Reconnaissance Level Characterization Report
for the Building T764 Removal Project

FEBRUARY 1997

Revision 0

The data compiled for this Reconnaissance Level Characterization Report was reviewed for accuracy and the report was prepared by:



Mary T. Aycock, SEG, CO
State Building Inspector Certification
Number: 310621908

2/10/97

DATE

February 10, 1997

RECONNAISSANCE LEVEL CHARACTERIZATION REPORT

1.0 INTRODUCTION

A Statement of Work has been prepared for the removal and relocation of building T764A. The removal is necessary due to an addition being placed on Building 764 to accommodate the installation of the new Plant Security System. In order for the addition to proceed, sufficient space must be made available through the removal of Building T764A. Failure to remove this facility within the specified time frame will delay the construction of the planned addition to Building 764 and will further impact the start of construction on the new security system.

1.1 PURPOSE

The purpose of this Reconnaissance Characterization Report is to present all of the available data and process information pertaining to the Building T764A, in an effort to identify the type, quantity, condition, and location of radioactive and hazardous materials which are, or which may be, present as residual contamination in the subject facilities. The compilation of facility information contained herein, in conjunction with the Building T764A removal project files established during this investigation, brings together pertinent data from various sources to serve as a practical reference for project use during the removal efforts.

1.2 SCOPE

This report is prepared in support of the task work defined in The Statement of Work for Building T764A Removal for the U.S. Department of Energy (DOE) at the RFETS located near Golden, Colorado, dated January 8, 1997. The information presented in this report specifically pertains to the removal phase of building T764A; the review of historical records and the collection of process knowledge information covers the operational time period for the facility from original construction to present.

The project will proceed in accordance with the statement of work as follows:

Phase I: This phase pertains to the construction management requirements which include coordination of preliminary design and review activities which must be addressed prior to and during construction. The preparation of the Integrated Work Control Package (IWCP) is part of this process which addresses design, specification and administrative requirements as established by the subcontract.

Phase II: This phase includes the preparation of the building for removal to include disconnect of utilities, fire systems, computer and telephone supply lines. Exterior structures such as the stairs, landings and roof sections will be removed. Demolition of the pier footings is also part of this phase.

Phase III: This phase includes physical transport of the building to PU&D.

Phase IV: This phase includes the final gradework and cleanup of the construction site.

1.3 SUMMARY

An examination of building construction materials and building use relating to Building T764A initiated January 13, 1997, has now been completed. As part of this examination, a comprehensive survey was undertaken to determine the location and character of any radioactive and/or hazardous contaminants which may be present in the building materials. A summary of relevant characterization information is presented in section 2.0. The general conclusions drawn from this examination are presented in section 3.0.

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1.4 METHODOLOGY

As part of this investigation, comprehensive physical inspections of all accessible areas of Building T764A were conducted during the month of January 1997. The primary purposes of these inspections were:

- To confirm the accuracy of file documentation pertaining to as-built or modified facility construction equipment installations and general facility conditions.
- To obtain volume estimates for wastes which will be generated during removal activities.
- To identify equipment, structures, process lines, and associated items which will require field surveys and/ or analytical sampling for the purposes of further characterization of the Building T764A for radioactive and/or hazardous materials. Of particular interest were field surveys conducted to search for the presence of Lead and Asbestos.

2.0 RECONNAISSANCE SURVEY RESULTS

2.1 Data Quality Objectives (DQOs)

2.1.1 WASTE MANAGEMENT:

Materials from removal activities will be generated as waste and must be characterized prior to disposition. Procedures must be in place to insure sampling and analysis of wastes to be generated that are in accordance with EPA and State regulations. The information that needs to be learned involves acquisition of data for hazardous and radioactive contaminants, to a level consistent with regulatory and procedural requirements, for wastes that will be generated as a result of a particular activity. The requirements for characterization of hazardous waste is specified in several RFETS waste management procedures that are based on the requirements established primarily by 40 CFR 261 and 6 CCR 1007-3, 261. If the waste materials tested demonstrate hazardous or radioactive characteristics, then they will be managed as such in accordance with the Low-Level or Hazardous Waste Requirements Manual.

2.1.2 INDUSTRIAL HYGIENE:

Some removal activities involve the generation of hazardous dusts and fumes, or other exposures of personnel to hazardous materials or constituents (i.e. lead paint that is being welded) which must be measured and quantified prior to conducting the operation. This requirement is driven by OSHA 1926.61 for lead and other sections of OSHA for other constituents. Procedures must be in place to assess the workplace activities for hazardous materials, which could create an exposure to employees, prior to execution of the work, and in accordance with OSHA and NIOSH requirements. The information that needs to be learned involves the acquisition of data for levels of hazardous contaminants associated with equipment, building materials, or residuals within construction areas, that could be associated with hazardous exposures to the workers. Preliminary screening and sampling in accordance with OSHA requirements is required for materials such as beryllium, lead, cadmium, chrome, asbestos and other hazardous constituents associated with areas of decommissioning. If the materials to be decommissioned demonstrate hazardous contaminants above the OSHA Action Levels, then appropriate steps such as Engineering and Administrative Controls, Decontamination, or the use of PPE will be implemented under appropriate plans and procedures to meet OSHA requirements.

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2.2 Reconnaissance Survey Asbestos and Lead Sampling Results

On January 14, 1997, Paul Riedel, CIH, performed an asbestos and lead inspection in Building T764A. Two (2) bulk samples of wall paint were collected for lead analysis. Four samples of suspect asbestos containing material (ACM) were collected including ceiling tiles, glue mastic behind the baseboards, and floor tiles.

The paint samples were submitted to Shuller Laboratory (AIHA accreditation # 056) for lead analysis using EPA method SW846-3051. The suspect asbestos samples were submitted to Reservoirs Environmental Services, Inc. (NVLP # 1896) for analysis by Polarized Light Microscopy (PLM). The laboratory results indicate that the bulk samples demonstrated less than detectable limits for lead and asbestos.

The two floor tiles taken are presumed to be representative of the rest of the tile in the building. A visual inspection was also conducted for the entire floor under the carpet to confirm the presence of floor tiles different from those that were sampled. Assuming that the floor tiles inspected are homogeneous, the building is presumed to be asbestos-free (reference attached DCI memo, dated January 16, 1997). Additional sampling of ACM building materials will be conducted during removal actions if suspect materials are found during construction.

A Radiological release of the building will be conducted in accordance with procedure ~~non~~ P73-HSP-18.10 "Radioactive Material Transfer and Unrestricted Release of Property". The documentation will be included in the project files for final IWCP close-out.

2.3 Data Quality Assessment

Given the evident compliance with qualified sampling, analytical, and recordkeeping procedures, all the sampling data was reviewed and considered valid and thereby usable. The DQOs for the characterization have been satisfied.

3.0 DECISIONS MADE

Minimal wastes will be generated as a result of the removal of Building T764A. Wastes that will be generated by the project have been characterized as sanitary. The subcontractor will be responsible for the removal of all skirting material from the building in such a manner that will allow reuse at a later date. Skirting material will be stored inside trailer units to prevent damage. Scrap metal removed from the Building (i.e. excavated conduit) will be recycled through the PU&D scrap metals deposit area. The existing pier footings will be demolished and the debris sent to the RFETS landfill.

4.0 REFERENCES AND ATTACHMENTS

1. Kaiser-Hill Interoffice Memorandum, to J. Schattel, from D. Ferrera, Subject: Request to perform Asbestos and Lead Characterization-DWF-011-97, dated January 13, 1997.
2. DynCorp Interoffice memorandum, to S. Strandberg, from J. Schattel, Subject: Lead and Asbestos Inspection, Building T764A-JLS-011-97, dated January 16, 1997.
3. Kaiser-Hill Interoffice Memorandum, to H. Atchison, from S. Strandberg, Subject: Asbestos and Lead Characterization of T764A-SWS-001-97, dated January 20, 1997.

February 10, 1997

KAISER • HILL
COMPANY

INTEROFFICE MEMORANDUM

DATE: January 13, 1997

TO: J. Schattel, Safety & Health, Bldg. T130D, X9895

FROM: *D W Ferrera*
D. W. Ferrera, Safeguards, Security, & Site Operations & Integration, Bldg. 111,
X5008

SUBJECT: REQUEST TO PERFORM ASBESTOS AND LEAD CHARACTERIZATION -
DWF-011-87

The purpose of this letter is to formally request that DynCorp of Colorado, Inc. (DCI) Safety and Health perform an asbestos and lead characterization on T764A. As discussed previously with Darrell Lingk of your organization, Kaiser-Hill Safety & Industrial Hygiene (KH S&IH) is requesting the analysis results this Friday, January 17, 1997, if at all possible. KH S&IH will provide a charge number.

If the assessment reveals no asbestos or lead, submit analysis results to Kaiser-Hill Safety & Industrial Health Friday, January 17, 1997. If off-site laboratory analysis is required, provide results, if possible, by January 17, 1997, but no later than January 22, 1997.

If you have any questions or require further information, please call Steve Strandberg at extension 3781 or pager 3028.

Thank you in advance for your quick response to this request.

CLR

cc:
S. Dieterle
D. Lingk
R. L. Mitchell



DynCorp of Colorado, Inc.

Interoffice Memorandum

DATE: January 16, 1997
TO: Steve Strandberg, Principal Industrial Hygienist, Kaiser-Hill, T452C, X3781
FROM: John Schattel, Manager, Occ. Safety and Health, T130D, X9835
SUBJECT: LEAD AND ASBESTOS INSPECTION, BUILDING T764A-JLS-011-97
Ref: D. W. Ferrera ltr., DWF-011-97 to J. Schattel, Request to Perform Asbestos and Lead Characterization, January 13, 1997

On January 14, 1997, Paul Riedel, CIH, performed an asbestos and lead inspection in Building T764A. The inspection was requested by D. W. Ferrera, Kaiser-Hill, to determine if the building contains any lead or asbestos materials. Two bulk samples of the wall paint were collected for lead analysis. Four samples of suspect asbestos materials were collected: ceiling tile, glue mastic behind the baseboards, and floor tile (two samples).

The paint samples were submitted to Shuller Laboratory (AIHA accreditation #056) for lead analysis using Method #EPA SW846-3051. The suspect asbestos samples were submitted to Reservoirs Environmental Services, Inc. (NVLAP # 1896) for analysis by Polarized Light Microscopy (PLM). The laboratory results indicate the bulk samples were less than the detectable limits for lead and asbestos.

Please note, the two floor tile samples are probably representative of the remaining floor tiles. However, buildings, occasionally, have mixed asbestos and non-asbestos floor tiles. A visual inspection of the entire floor under the carpet would confirm whether the building contains floor tiles that are different from those that were sampled. Assuming no other types of floor tile present, the building is free of asbestos and lead materials.

If you have any questions regarding this survey please contact Paul Riedel at X7289 or DP 1639.

JLS:prr

cc: Denny Ferrera
Chuck Herring
Darrel Lingk
Richard Mitchell
Shirley Ransom



KAISER ♦ HILL
COMPANY
INTEROFFICE MEMORANDUM

DATE: January 20, 1997

TO: H. L. Atchison, K-H Construction Management, T130D, X5890

FROM: S.W. Strandberg, K-H Safety & Industrial Hygiene, T452C, X3781

SUBJECT: ASBESTOS AND LEAD CHARACTERIZATION OF T764A - SWS-001-97

Ref: J. Schattel ltr., JLS-011-97 to S. Strandberg, Lead and Asbestos Inspection, Building T764A, January 16, 1997;
D.W. Ferrera ltr., DWF-011-97 to J. Schattel, Request to Perform Asbestos and Lead Characterization, January 13, 1997

Attached is the DynCorp letter report of the lead and asbestos characterization performed on Building T764A, per your request. Additionally, I have attached the memo which initiated the request for DynCorp's assistance in conducting the above referenced characterization.

The sample analyses for both asbestos and lead indicate that no detectable levels of either material were found in the samples collected. I would draw your attention to the final paragraph of the report regarding the interpretation of a negative result for asbestos content in the floor tile. Should removal of the carpeting reveal the presence of a non-homogenous floor tile, please contact me to arrange for additional sampling to determine the presence or absence of asbestos in the unknown tile.

If you have any questions regarding the survey results, please contact me at extension 3781 or digital pager 3028.

SWS

cc:
D. M. Morrell

Post-It® Fax Note 7671		Date 1/28/97	# of pages 3
To: Herb Atchison	From: Steve Strandberg		
Co/Dep: S-H Const Mgmt.	Co: KH - IH & Sfty		
Phone # 5890	Phone # 3781		
Fax # 5215	Fax # 2961		